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TITLE: BIOACOUSTIC CONVERTER

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain the bioacoustic converter which can detect the acoustic vibrations of an audible frequency region generated from the injured section of the cerebral blood vessel on the surface of the eyelid with a good sensitivity.

CONSTITUTION: A diaphragm 2 consisting of an elastic material is mounted to the aperture 10 of a housing 1 which is closed in an upper part 7 and is opened in a bottom 8. A coupler 3 is fixed to the central part of the diaphragm 2 and a band-shaped high-polymer piezoelectric film 5 which is formed with the top end of the coupler 3 as a curved part and has the stretching direction in its longitudinal direction, is extended. Both ends 9 of the high-polymer piezoelectric film 5 are fixed to the circumference in the bottom 8 of the housing 1 by a press plate 4. Al electrodes 13 in the fixing parts at both ends of the high-polymer piezoelectric film 5 are formed by removing both surfaces or one surface of the high-polymer piezoelectric film 5, by which the unnecessary electrostatic capacity in the bioacoustic converter is decreased and the sensitivity thereof is improved.

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